BRUHATH BANGALORE MAHANAGARA PALIKE

Name of work — **Construction of toilets in Dasarahalli in ward No. 06 Byatarayanapura Sub Division**

Estimate cost : Rs 5.00 lakhs

Sl No	Description of work		Measurements No	L	B	D	Qty	Unit	Rate	Amount
1	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods									
	all round .		1	12.50	0.75	0.90	8.44			
	For sump		1	2.40	2.40	1.80	10.37			
	For sanitary connection		1	10.00	0.45	1.00	4.50			
	For Soak Pit		1	3.15	2.25	3.00	21.29			
	Pipe Line		1	30.00	0.60	0.75	13.50			
	[P.No.5-1.No.2.4]						**58.10**	**cum**	**305.64**	17756.16
	Basic Rate	283.00								
	Add 8%	22.64								
	Total Rs	305.64								
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all									
	all round .		1	12.50	0.75	0.15	1.41			
	for flooring		1	3.50	2.50	0.15	1.31			
	For sump		1	2.20	2.20	0.15	0.73			
	Flaging Concrete		2	5.00	0.75	0.15	1.13			
			2	2.50	0.75	0.15	0.56			
	[P.No.12-1. No.4.2]						**5.13**	**cum**	**5449.68**	27969.12
	Basic Rate	5046.00								
	Add 8%	403.68								
	Total Rs	5449.68								
3	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials,									
	all round .		1	12.50	0.60	0.90	6.75			
	[P.No.23-1. No.5.6]						**6.75**	**cum**	**4521.96**	30523.23
	Basic Rate	4187.00								
	Add 8%	334.96								

Sl No	Description of work		Measurements No	L	B	D	Qty	Unit	Rate	Amount
	Total Rs	4521.96								
4	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials,									
	all round .		1	12.50	0.45	0.45	2.53			
	[P.No.23-1. No.5.9]						**2.53**	**cum**	**5405.40**	**13682.42**
	Basic Rate	5005.00								
	Add 8%	400.4								
	Total Rs	5405.40								
5	KSRB 5.2-1 Providing and constructing granite / trap / basalt rubble stone masonry in foundation with mud mortar, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.12 Page									
	For Soak Pit			7.06	0.45	2.50	7.94			
	[P.No.23-1. No.5.9]						**7.94**	**cum**	**5405.40**	**42932.39**
	Basic Rate	5005.00								
	Add 8%	400.4								
	Total Rs	5405.40								
6	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour,									
	all round .		1	12.50	0.45	0.10	0.56			
	Centre wall		1	3.10	0.45	0.20	0.28			
			1	1.20	0.45	0.20	0.11			
	Basic Rate	6011.00					**0.95**	**cum**	**6491.88**	**6164.04**
	Add 8%	480.88								
	Total Rs	6491.88								
7	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005									
	all round .		1	12.50		3.00	37.50			
	Centre wall		1	3.10		2.10	6.51			
			1	1.2		2.10	2.52			
							46.53			
	Deductions									
	D		1	0.90		2.10	1.89			
	D1		2	0.75		2.10	3.15			
	v		4	0.90		0.60	2.16			

Sl No	Description of work		Measurements No	L	B	D	Qty	Unit	Rate	Amount
						(-)	7.20			
	[P.No.25-1.No.5.27.1]						39.33	sqm	1011.96	39800.39
	Basic Rate	937.00								
	Add 8%	74.96								
	Total Rs	1011.96								
8	KSRB 6-2.3 Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 50 (table moulded) with cement mortar 1:6 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2, Page No. 27/ Item No. 6.6/ PWD SR							Cum		
	For Sump		2	2.00	0.23	2.00	1.84			
			2	1.65	0.23	2.00	1.52			
							3.36	sqm	7219.80	24244.09
	Basic Rate	6685.00								
	Add 8%	534.8								
	Total Rs	7219.80								
9	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery									
	V.		4	0.90		0.60	2.16			
	[P.No.32-1.No.7.9]									
	Basic Rate	78.00					2.16	kg	84.24	181.96
	Add 8%	6.24								
	Total Rs	84.24								
10	KSRB 4-6.3: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per specificaiton.									
	TOP COVERING SLABS		1	4.10	3.10		12.71			
			2	4.00	0.60		4.80			
			2	3.00	0.60		3.60			
	Basic	384.00					21.11	sqm	414.72	8,754.74
	add 8% Area weightage	30.72								
	Total	414.72								
11	KSRRB M 2300-2.1 : Plain/reinforcement Cement Concrete design mix M20 super structure with OPC cement @320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.46cum with superplastisiser									

Sl No	Description of work		Measurements No	L	B	D	Qty	Unit	Rate	Amount
	Roof		1	4.10	3.10	0.15	1.91			
	Sump		1	2.00	2.00	0.15	0.60			
			2	5.00	0.75	0.10	0.75			
			2	2.50	0.75	0.10	0.38			
	Basic Rate	6724.00					**3.63**	**cum**	**7261.92**	26371.662
	Add 8%	537.92								
	Total Rs	**7261.92**								
12	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per									
	consider 90kg/cum				3.63		0.33			
	Pg 17 item no 4.46.2						**0.33**	**MT**	**60534.00**	**19784.63**
	Basic Rate	56050.00								
	Add 8%	4484.00								
	Total Rs	**60534.00**								
13	KSRB 9-7.1 : Providing and fixing in position fully pannelled **mathi/Nandi wood** shutters for doors, styles and rails of 30mm. Thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) specification NO. KBS 0.24									
	D .		1	0.90		2.10	1.89			
	[P.No.52-1.No.9.25]						**1.89**	**Sqm**	**2852.28**	5390.81
	Basic Rate	2641.00								
	Add 8%	211.28								
	Total Rs	**2852.28**								
14	PVC DOOR Shutter : Supply and fixing of doors shuttersmade of rigid PVC extruded hollow section of 20mm X 200mm with the wall thickness of 1.0mm + /0.1mm equally divided into 4nos with tongue and groove locking arrangements. The shutter frame is made of 58*24 mm with the wall thickness of 1.5mm+/-0.15mm section metricut and joined at 4 corners with 125mmX225mm plastic brackets. The shitter shall be horizontally reinforced with 2nos of 8mm PVC rods. Teak wood battons shall be reinforced inside the door shutter during the fabrication of the door shutter at									
	D1 .		2	0.75		2.10	**3.15**			
	[P.No.58-1.No.9.86]						**3.15**	**sqm**	**1900.80**	5987.52
	Basic Rate	1760.00								
	Add 8%	140.80								
	Total Rs	1900.80								

Sl No	Description of work		Measurements No	L	B	D	Qty	Unit	Rate	Amount
15	KSRB15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost									
	Outside Plastering .		2	3.50		3.60	**25.20**			
			2	3.00		3.60	**21.60**			
	Sump		2	2.00		2.00	**8.00**			
			2	1.65		2.00	**6.60**			
							61.40			
	Deduct :									
	Door		1	0.90		2.10	**1.89**			
	V		4	0.90		0.60	**2.16**			
						(-)	**4.05**			
	[P.No.114-1.No.15.18]						**57.35**	**sqm**	**279.72**	**16041.94**
	Basic Rate	259.00								
	Add 8%	20.72								
	Total Rs	279.72								
16	KSRB15-3.10 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost									
	Inside Plastering .\		2	3.10		3.00	18.60			
			2	1.20		3.00	7.20			
	Celing plastering		1	3.10	2.50		7.75			
	for toilet		2	1.50		3.00	9.00			
	for toilet		2	1.50		2.10	6.30			
	for urinals		2	1.20		3.00	7.20			
							56.05			
	Deduct :									
	D		1	0.9		2.10	**1.89**			
	D1		2	0.75		2.10	**3.15**			
	V		4	0.90		0.60	**2.16**			
						(-)	**7.20**			
	[P.No.114-1.No.15.21]						**48.85**	**sqm**	**208.44**	**10182.29**
	Basic Rate	193.00								
	Add 8%	15.44								
	Total Rs	208.44								
17	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar									
	[P.No.118-1.No.15.54.2]			Qty Vide Item No			**57.35**	**sqm**	**45.36**	**2601.40**
	Basic Rate	42.00								
	Add 8%	3.36								
	Total Rs	45.36								

Sl No	Description of work	Measurements No	L	B	D	Qty	Unit	Rate	Amount
18	KSRB 14.14-5 : Providing ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. ceramic tiles								
	Toilet flooring .	2	1.20	1.50		3.60			
	Urianls area	1	3.10	1.20		3.72			
	[P.No.106-1.No.14.36.3]					**7.32**	**Sqm**	**1272.24**	**9312.80**
	Basic Rate 1178.00								
	Add 8% 94.24								
	Total Rs **1272.24**								
19	KSRB 14.14-5 : Providing ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. ceramic tiles 15X15cms 6mm thick								
	Toilet wall .	4	1.20		2.10	10.08			
	Urianls wall	4	1.50		2.10	12.60			
	Urianls wall	2	3.10		2.10	13.02			
	Wash basin area	1	1.20		3.10	3.72			
						39.42			
	Deduct :								
	D	1	0.9		2.10	**1.89**			
	D1	2	0.75		2.10	**3.15**			
					(-)	**5.04**			
	[P.No.106-1.No.14.36.1]					**34.38**	**Sqm**	**999.00**	**34345.62**
	Basic Rate 925.00								
	Add 8% 74.00								
	Total Rs **999.00**								
20	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step								
	20mm dia CPVC pipe .	1	30.00			**30.00**			
	[P.No.97-1.No.13.87.2]					**30.00**	**mtr**	**135.00**	**4050.00**
	Basic Rate 125.00								
	Add 8% 10.00								
	Total Rs 135.00								
	25mm dia CPVC pipe .	1	20.00			**20.00**			
	[P.No.97-1.No.13.87.3]					**20.00**	**mtr**	**178.20**	**3564.00**
	Basic Rate 165.00								
	Add 8% 13.20								
	Total Rs 178.20								
	32mm dia CPVC pipe .	1	20.00			**20.00**			
	[P.No.97-1.No.13.87.4]					**20.00**	**mtr**	**232.20**	**4644.00**

Sl No	Description of work		Measurements No	L	B	D	Qty	Unit	Rate	Amount
	Basic Rate	215.00								
	Add 8%	17.20								
	Total Rs	232.20								
21	Providing white vitreous china clay indian pattern squatting urinals with white glazed foot rests of approved quality and make conforming to ISI specifications and fixing in position with M-15 as directed of size 50.8 cms X 38 cms X 10.16 CMS - A									
	.						**3.00**			
	[P.No.88-1.No.12.110]						**3.00**	**each**	**1047.60**	3142.80
	Basic Rate	970.00								
	Add 8%	77.60								
	Total Rs	1047.60								
22	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and									
	12.5cmx7.5cm .						**4.00**			
	[P.No.88-1.No.12.113.2]						**4.00**	**each**	**307.80**	1231.20
	Basic Rate	285.00								
	Add 8%	22.80								
	Total Rs	307.80								
23	KSRB13-6.1-1 : Providing and fixing in position brass bib cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete									
	.						**10.00**			
	[P.No.91-1.No.13.23]						**10.00**	**each**	**249.48**	2494.80
	Basic Rate	231.00								
	Add 8%	18.48								
	Total Rs	249.48								
24	KSRB 12-8.1 : Constructing brick masonry inspection chamber 455x610mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of									
	.						**2.00**			
	[P.No.73-1.No.11.50]						**2.00**	**No's**	**7604.28**	**15208.56**
	Basic Rate	7041.00								
	Add 8%	563.28								
	Total Rs	7604.28								

Sl No	Description of work	Measurements No	L	B	D	Qty	Unit	Rate	Amount
25	KSRB 11-5 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I/M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of								
	.					4.00			
	[P.No.77-1.No.12.5]					4.00	each	5540.40	22161.60
	Basic Rate 5130.00								
	Add 8% 410.40								
	Total Rs 5540.40								
26	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost								
	.					2.00			
	[P.No.80-1.No.12.23]					2.00	No's	4196.88	8393.76
	Basic Rate 3886.00								
	Add 8% 310.88								
	Total Rs 4196.88								
27	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 : 1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and								
	[P.No.94-1.No.13.78] .					1.00	No's	9144.36	9144.36
	Basic Rate 8467.00								
	Add 8% 677.36								
	Total Rs 9144.36								
28	Providing and finishing external walls in two coats over one coat of 100% acrylic silicon glazed primer with antifungal paint for top coat of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign								
	[P.No.125-1.No.15.104]					57.35	Sqm	163.08	9352.64
	Basic Rate 151.00								
	Add 8% 12.08								
	Total Rs 163.08								

Sl No	Description of work	Measurements No	L	B	D	Qty	Unit	Rate	Amount
29	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO - 94, I.NO - 13.73.2, PWD SR 16-17)								
			1	30			30.00	No's	368.88	11066.40
	Basic Rate 348.00									
	Add 8% 20.88									
	Total Rs 368.88									
30	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 16-17)								
			1	30	0.60	0.75	13.50	Sqm	80.56	1087.56
	Basic Rate 76.00									
	Add 8% 4.56									
	Total Rs 80.56									
31	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -								
	Qty vide above Item No.2 [P.No.134-1.No.17.1] & [P.No						58.10 AE58.10	cum	116.00	6733.02
	Loadind and unloading BR=Rs.68.00.(P-134, I.No.									
	Cost of haulage BR=Rs.2.50 T.Km.(P-134, I.No.17									
	(P-									
				Total Rs.			_	_	_	444307.90
				Add 12% GST			_	_	_	53316.95
				For Miscellaneous &			_	_	_	2375.16
				GRAND TOTAL			_	_	_	500000.00

ADMINISTRATIVE APPROVAL
Accorded For Rs. Five lakhs only
Head of A/c ∠ P-3294
Div. Ref. No. 40 Date 01/02/19
AE Executor
EE(BTP) 01/02

TECHNICAL SANCTION
Accorded For Rs. Five lakhs only
Head of A/c P-3294
Div. Ref. No. 70 Date 01/02/19
AE Executor
EE(BTP) 01/2

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17
3 This works come under B.B.M.P. limits.

Assistant Engineer
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Executive Engineer
Byatarayanaura Div

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Constructing Drains in Hegadenagara Hindu Burial Ground in Ward no . 06 Byatarayanapura Sub Division

		Estimate Cost Rs.						500000.00	
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 143/ Item No. 19.1/ PWD SR 2018-19	Cum							
	For RCC Drain								
	Hegadenagara Hindu Burial Ground		1	57.00	0.90	0.90	46.17		
							46.17	137.80	**6362.00**
	Basic Rate	130.00							
	Area Weightage @ 6%	7.80							
	Total	**137.80**							
2	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 13/ Item No. 4.3/ PWD SR 2018-19	**Cum**							
	For RCC Drain								
			1	57.00	0.90	0.15	7.88		
							7.88	5408.12	**42642.00**
	Basic Rate	5102.00							
	Area Weightage @ 6%	306.12							
	Total	**5408.12**							
3	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 17/ Item No. 4.34/ PWD SR 2018-19	**Sqm**							
	For RCC Drains								
	Chanukya Layout		1X4	57.00	0.60		136.80		
							136.80	309.52	42342.00
	Basic Rate	**292.00**							
	Area Weightage @ 6%	17.52							
	Total	**309.52**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2018-19	cum							
	For RCC Drain Vent		.1	57.00	0.60	0.15	5.13		
							5.13	5627.54	**28869.00**
	Basic Rate	5309.00							
	Area Weightage @ 6%	318.54							
	Total	**5627.54**							
5	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 14/ Item No. 4.11/ PWD SR 2018-19	Cum							
	For RCC Drains								
	Bottom Concrete		1	57.00	0.90	0.15	7.70		
	Side Walls		1X2	57.00	0.15	0.60	10.26		
							17.96	5998.54	**107704.00**
	Basic Rate	5659.00							
	Area Weightage @ 6%	339.54							
	Total	**5998.54**							
6	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 18/ Item No. 4.46.2/ PWD SR 2018-19	Qtl							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	0.97Ton/Cum		0.089	17.96			**1.60**	75223.96	**120208.00**
	Basic Rate	70966.00							
	Area Weightage @ 6%	4257.96							
	Total	**75223.96**							
7	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shutterng machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab	Sqm							
			1	57.00	0.90		51.30		
							51.30	1856.67	**95247.00**
	Data Rate	**1856.67**							
8	KSRRB M100-2. Loading and Unloading of stone boulders by manual means complete as per specification MORTH-100/chapter-1 Page No. 136/ Item No. 17.1/ PWD SR 2018-19	Cum							
			Qty. Vide Item No. 1+2				**46.17**		
							46.17	60.42	**2790.00**
	Basic Rate	57.00							
	Area Weightage @ 6%	3.42							
	Total	**60.42**							
							Grand Total		**446164.00**
9	For 12% Applicable GST								**53540.00**
10	Miscesallaneous Charges	L/S							**296.00**
									500000.00

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2018-19
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 06(Thanisandra)

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub-Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
01/02

ADMINISTRATIVE APPROVAL

Accorded For Rs. Five lakhs only

Head of A/c. P-3291

Div. Ref. No. 39/18-19 Date. 01/02/19

AE 01/02 EE(BTP) 01/02

TECHNICAL SANCTION

Accorded For Rs. Five lakhs only

Head of A/c. P-3291

Div. Ref. No. 69 Date. 01/02/19

AE 01/02 EE(BTP) 01/02

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Construction of Lead of Drains to Connect storm water drains at Bhagyashree layout, in Ward no.06 Byatarayanapura Sub Division

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							Estimate Cost Rs.		1000000.00
1	KSRRB 300-1. Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 143/ Item No. 19.1/ PWD SR 2018-19	Cum							
	For RCC Drain								
	Hegadenagara Hindu Burial Ground		1	59.00	1.50	1.35	119.48		
							119.48	137.80	**16464.00**
	Basic Rate	130.00							
	Area Weightage @ 6%	7.80							
	Total	**137.80**							
2	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 13/ Item No. 4.3/ PWD SR 2018-19	**Cum**							
	For RCC Drain								
			1	59.00	1.50	0.15	13.58		
							13.58	5408.12	**73425.00**
	Basic Rate	5102.00							
	Area Weightage @ 6%	306.12							
	Total	**5408.12**							
3	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 17/ Item No. 4.34/ PWD SR 2018-19	**Sqm**							
	For RCC Drains								
	Chanukya Layout		1X4	59.00	1.20		283.20		
							283.20	**309.52**	87656.00
	Basic Rate	**292.00**							
	Area Weightage @ 6%	17.52							
	Total	**309.52**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2018-19	**cum**							
	For RCC Drain Vent		1	59.00	1.10	0.15	9.74		
							9.74	5627.54	**54784.00**
	Basic Rate	5309.00							
	Area Weightage @ 6%	318.54							
	Total	**5627.54**							
5	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 14/ Item No. 4.11/ PWD SR 2018-19	**Cum**							
	For RCC Drains								
	Bottom Concrete		1	59.00	1.50	0.15	13.28		
	Side Walls		1X2	59.00	0.20	1.20	28.32		
							41.60	5998.54	**249509.00**
	Basic Rate	5659.00							
	Area Weightage @ 6%	339.54							
	Total	**5998.54**							
6	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 18/ Item No. 4.46.2/ PWD SR 2018-19	**Qtl**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	0.85Ton/Cum		0.085	41.60			**3.54**	75223.96	**265960.00**
	Basic Rate	70966.00							
	Area Weightage @ 6%	4257.96							
	Total	**75223.96**							
7	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shutterng machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab	Sqm							
			1	61.00	1.20		73.20		
							73.20	1856.67	**135908.00**
	Data Rate	**1856.67**							
8	KSRRB M100-2. Loading and Unloading of stone boulders by manual means complete as per specification MORTH-100/chapter-1 Page No. 136/ Item No. 17.1/ PWD SR 2018-19	Cum							
			Qty. Vide Item No. 1+2				**119.48**		
							119.48	60.42	7219.00
	Basic Rate	57.00							
	Area Weightage @ 6%	3.42							
	Total	**60.42**							
							Grand Total		**890925.00**
9	For 12% Applicable GST								**106911.00**
10	Miscesallaneous Charges	L/S							**2164.00**
									1000000.00

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2018-19
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 06(Thanisandra)

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
01/02

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division

ADMINISTRATIVE APPROVAL

Accorded For Rs. Ten lakhs only
Head of A/c. P-3297
Div. Ref. No. 38/18-19 Date. 01/02/19

01/02
AE

01/02
EE(BTP)

TECHNICAL SANCTION

Accorded For Rs. Ten lakhs only
Head of A/c. P-3297
Div. Ref. No. 68/18-19 Date. 01/02/19

01/02
AE

01/02
EE(BTP)

BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

ame of work: Detailed Estimate for the Work of Addition and alteration works and onstruction of Tiolet at Existing Help poing building at Hegdenagara in Ward No. 06 yatarayanapura Sub Division

					Estimate Cost Rs.			500000.00	
	Center Line:- 4.77+4.77+2.27+2.27+2.27+2.27=18.62								
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-1.1: Earth work in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, Specification No KBS 2.1(a) / 2.3.1,P. No. 5/ Item No. 2.1/ PWD SR 2016-17	Cum							
	For Toilet		1	6.00	3.00	0.30	5.40		
							5.40	169.56	**916.00**
	Basic Rate	157.00							
	Area Weightage @ 8%	12.56							
	Total	**169.56**							
2	KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.3/ PWD SR 2016-17	Cum							
	For Toilet								
	Foundation		1	18.62	0.75	0.75	10.47		
							10.47	204.12	**2138.00**
	Basic Rate	189.00							
	Area Weightage @ 8%	15.12							
	Total	**204.12**							

No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB-4-1.3 : Providing and laying in position **plain cement concrete of mix M 7.5** withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2016-17	cum							
	For Tioiet		1	18.62	0.75	0.15	2.09		
							2.09	5256.36	**11011.00**
	Basic Rate	4867.00							
	Area Weightage @ 8%	389.36							
	Total	**5256.36**							
4	KSRB 5.2-2 Providing and constructing granite / trap / basalt rubble **stone masonry in foundation** with mud mortar 1:8, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 **Page**	cum							
			1	18.62	0.60	0.45	**5.03**		
							5.03	4359.96	**21919.00**
	Basic Rate	4037.00							
	Area Weightage @ 8%	322.96							
	Total	**4359.96**							
5	KSRB 5.3-1 Providing and constructing granite / trap / basalt size stone masonry in basement with mud mortar, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23/ Item No. 5.9/ PWD SR 2016-17	Cum							
	For Compound Wall		1	18.62	0.45	0.50	4.19		
							4.19	5405.40	**22646.00**
	Basic Rate	5005.00							
	Area Weightage @ 8%	400.40							
	Total	**5405.40**							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 4.2.2 : Providing and laying in position Reinforced cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2016-17	Cum							
	Plinth		1	18.62	0.50	0.15	1.40		
	Lintel		1	18.62	0.23	0.15	0.64		
	Roof		1	5.90	3.40	0.15	3.01		
							5.05	6491.88	**32770.00**
	Basic Rate	6011.00							
	Area Weightage @ 8%	480.88							
	Total	**6491.88**							
7	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46/ PWD SR 2016-17	Qntl							
	80Kg / Cum		0.08	5.05			**0.38**	65455.56	**25111.00**
	Basic Rate	60607.00							
	Area Weightage @ 8%	4848.56							
	Total	**65455.56**							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No. 24/ Item No. 5.27/ PWD SR 2016-17	Sqm							
	For Toilet		1	18.62		3.00	55.86		
	Deduction for Doors		3	0.75		2.10	4.73		
	Ventiletor		6	0.75		0.60	2.70		
							7.43		
							48.44	1011.96	**49014.00**
	Basic Rate	937.00							
	Area Weightage @ 8%	74.96							
	Total	**1011.96**							
9	Providing **flush pointing** to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **Page No. 119/ Item No. 15.1 PWD SR 2016-17**	sqm							
	For Tioiet		1	18.62	0.45		8.38		
							8.38	104.76	**878.00**
	Basic Rate	97.00							
	Area Weightage @ 8%	7.76							
	Total	**104.76**							
10	"SOLID PVC DOOR FRAMEProviding & fixing factory made PVC Door frame of size 50x47 mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2No.s of 150mm long brackets of 15x15 mm M.S. Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufactures specification & direction of Engineer-in charge Page No. 57/ Item No. 9.84/ PWD SR 2016-17	**Sqm**							
			3	0.75	2.10		4.73		
							4.73	568.08	**2684.00**
	Basic Rate	526.00							
	Area Weightage @ 8%	42.08							
	Total	**568.08**							

No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	SOLID PANEL PRELAM PVC DOOR SHUTTERProviding & fixing 30mm thick factory made rigid foam prelam panelled Door Shutters made from M.S. tube of 19x19mm, 19 gauge for styles and 15x15mm for top & bottom rails, covered with heat moulded prelaminated PVC 'C' Channel of 5mm thick sheet & 30x50mm wide of form styles & 5mm thick & 75mm wide prelaminated PVC sheets for top rail, lock rail & bottom rail on either side & 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet Prelaminated on either side fitted in the M.S. frame, sealed to the styles &rails with PVC designer beading on either side & joined together with solvent cement adhesive etc., complete as per manufactures specification & direction of Engineer –in-charge fixed to frames with 3nos of 75mm. Aluminium hinges. With Both Side Prelam Page No. 58/ Item No. 9.85/ PWD SR 2016-17								
			2	0.75	2.10		**3.15**	4368.60	**13761.00**
	Basic Rate	4045.00							
	Area Weightage @ 8%	323.60							
	Total	**4368.60**							
12	KSRB 15.3.13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Page No. 110/ Item No. 15.21 PWD SR 2016-17	Sqm							
	Ceiling Plasting		1	4.54	4.04		18.34		
							18.34	208.44	**3823.00**
	Basic Rate	193.00							
	Area Weightage @ 8%	15.44							
	Total	**208.44**							

I o	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
3	KSRB 15-3.7:- Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No. 109/ Item No. 15.15/ PWD SR 2016-17	Sqm							
	Inside		6	2.04		3.00	36.72		
			2	1.50		3.00	9.00		
			2	1.50		3.00	9.00		
			2	1.35		3.00	8.10		
							62.82		
	Deduction for Doors		3	0.75		2.10	4.73		
	Ventiletor		6	0.75		0.60	2.70		
							7.43		
	Blance Qty						**55.40**	263.52	**14598.00**
	Basic Rate	244.00							
	Area Weightage @ 8%	19.52							
	Total	**263.52**							
14	KSRB 15.3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No. 110/ Item No. 15.18 / PWD SR 2016-17	**Sqm**							
	Roof Top Plastring		1	5.90	3.40		20.06		
							20.06	238.68	**4788.00**
	Basic Rate	221.00							
	Area Weightage @ 8%	17.68							
	Total	**238.68**							
15	KSRB 15.4.1 : Extra for providing and mixing water proofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufactures, for cement mortar 1:3, 12mm thick cost of materials complete as per specifications. Page No. 110/ Item No. 15.23/ PWD SR 2016-17	**Sqm**							
			Qty Vide Item No.15				**20.06**	7.56	**152.00**
	Basic Rate	7.00							
	Area Weightage @ 8%	0.56							
	Total	**7.56**							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
16	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15/ Item No. 4.29.2/ PWD SR 2016-17	**Sqm**							
	Roof		1	5.90	2.50		14.75		
	Lintel		1	18.62	0.20		3.72		
	Beem		1	18.62	0.15		2.79		
							21.27	594.00	**12633.00**
	Basic Rate	550.00							
	Area Weightage @ 8%	44.00							
	Total	**594.00**							
17	KSRB 15.7: Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications. Page No. 110/ Item No. 15.17/ PWD SR 2016-17	Sqm							
	Room		Qty Vide Item No.13+14				73.74		
							73.74	213.84	**15768.00**
	Basic Rate	198.00							
	Area Weightage @ 8%	15.84							
	Total	**213.84**							
18	KSRB 15-3.7:- Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No. 109/ Item No. 15.15/ PWD SR 2016-17	Sqm							
	Out side		2	2.50		3.50	17.50		
			2	5.00		3.50	35.00		
							52.50	263.52	**13835.00**
	Basic Rate	244.00							
	Area Weightage @ 8%	19.52							
	Total	**263.52**							

No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
19	KSRB 15.15.3: Providing and applying painting in one coat with plastic emulsion paint of approved brand and manufacture on wall surface to give an even approved shade after thoroughly brushing the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth cost of materials, labour, complete as per specifications. Page No.114/ Item No. 15.52 / PWD SR 2016-17	Sqm							
				Qty Vide Item No.18			**73.74**	48.60	**3584.00**
	Basic Rate	45.00							
	Area Weightage @ 8%	3.60							
	Total	**48.60**							
20	Providing and fixing Ceramic tiles of size 400x400mm for flooring, threads,steps and landing,laid on a bed of 20mm thick cement morta. 1:3 mix flush pointing with white cement mixed with matching colour pigment including curing, clearing etc. complete .The Worked including curing., clearing etc., complete, The work includes cost of all materials. Labour charges for all items or work, hire charges for equipment, etc., complete as per specification. Page No. 116/ Item No. 14.63 / PWD SR 2016-17								
	For Flooring		1	4.54	4.04		18.34		
							18.34	1161.00	**21295.00**
	Basic Rate	1075.00							
	Area Weightage @ 8%	86.00							
	Total	**1161.00**							
21	KSRB 14.17.2: Providing skirting, dado, rises of steps with Colour glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface white should be measured and paid separately) using glazed tiles of approved make and size of materials, labour, complete as per specifications. Specification No. KBS 14.17. Page No. 103/ Item No. 14.41.1 / PWD SR 2016-17	Sqm							
	Inside		6	2.04		2.10	25.70		
			2	1.50		2.10	6.30		
			2	1.50		2.10	6.30		

No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			2	1.35		2.10	5.67		
							43.97	1157.76	**50911.00**
	Basic Rate	1072.00							
	Area Weightage @ 8%	85.76							
	Total	**1157.76**							
2	SKSRB 15-16 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to given an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. Page No. 114/ Item No. 15.53.2 / PWD SR 2016-17	Sqm							
	Out side		Qty Vide Item No.19				52.50		
							52.50	90.72	**4763.00**
	Basic Rate	84.00							
	Area Weightage @ 8%	6.72							
	Total	**90.72**							
23	KSRB 15.17.8 : Extra over item No. 15-17.6 for applying every subsequent coat of enamel paint to give an even shade after cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. **Page No.113/ Item No. 15.60.2 / PWD SR 20114-15**	Sqm							
	V		6	0.75	0.60		2.70		
							2.70	51.84	**140.00**
	Basic Rate	48.00							
	Area Weightage @ 8%	3.84							
	Total	**51.84**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
24	Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing, this including jointing of pipes and fittings with one step CPVC solvent cement and the cost of cutting chases & making good the same including testing of joints complete.(concealed work including cutting chases and good the walls etc,),15mm nominal OD pipes Page No. 92/ Item No. 13.83.1/ PWD SR 2016-17	m							
			1	28.00			28.00		
							28.00	270.00	**7560.00**
	Basic Rate	250.00							
	Area Weightage @ 8%	20.00							
	Total	**270.00**							
25	KSRB 13-6.1.2 : Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification NO. KBS 13.2.2 / 13.3, Page No. 88/ Item No. 13.24 / PWD SR 2016-17	Each							
			6				6.00		
							6.00	262.44	**1575.00**
	Basic Rate	243.00							
	Area Weightage @ 8%	19.44							
	Total	**262.44**							
26	KSRB 11-2 : Providing and fixing white vitreous china clay, water closets Orissa pattern of size 580 x 440mm with integral type footrests, 100m S or P trap, 10 litre low level, P. V. C. flushing cistern (all are approved make) with fittings, C.I. / M.S. brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.Specification No. KBS Page No. 78/ Item No. 12.2 PWD SR 2016-17	Unit							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			2				**2.00**	4596.16	**9192.00**
	Basic Rate	4336.00							
	Area Weightage @ 6%	260.16							
	Total	**4596.16**							
27	Providing and fixing CI Nahani Trap of approved make conforming to ISI specifications and construction of cistern in CC 1:2:4 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot).10 cms x 7.5cms, Page No.91/ Item No. 12.113.1 PWD SR 2016-17	Each							
			3				**3.00**	265.00	**795.00**
	Basic Rate	250.00							
	Area Weightage @ 6%	15.00							
	Total	**265.00**							
28	KSRB 13-6.1.2 : Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification NO. KBS 13.2.2 / 13.3, Page No. 88/ Item No. 13.24 / PWD SR 2016-17	Each							
			5				5.00		
							5.00	262.44	**1312.00**
	Basic Rate	243.00							
	Area Weightage @ 8%	19.44							
	Total	**262.44**							
29	KSRB 11.11.3 : Providing and fixing white vitreous china clay, flat back wash basin of size 550x400mm with pair of 15mm C.P brass pillar taps with C.I./M.S. brackets, 32mm C.P. brass waste of standard pattern, painting of fitting and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11. Page No.82/ Item No. 12.25 PWD SR 2011-12	**Unit**							
			2				**2.00**	3841.56	**7683.00**
	Basic Rate	3557.00							
	Area Weightage @ 8%	284.56							
	Total	**3841.56**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
30	KSRRB 300-1. Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per	Cum							
			1	13.00	0.60	0.60	4.68		
							4.68	88.56	**414.00**
	Basic Rate	82.00							
	Area Weightage @ 8%	6.56							
	Total	**88.56**							
31	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2016-17	**Cum**							
			1	13.00	0.60	0.15	1.17		
							1.17	5256.36	**6150.00**
	Basic Rate	4867.00							
	Area Weightage @ 8%	389.36							
	Total	**5256.36**							
32	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 23/ Item No. 5.6/ PWD SR 2016-17	cum							
			1	13.00	0.45	0.45	2.63		
							2.63		
	Deduction for Poles		14	0.45	0.45	0.30	0.85		
							1.78	4521.96	**8058.00**
	Basic Rate	4187.00							
	Area Weightage @ 8%	334.96							
	Total	**4521.96**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
33	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	**cum**							
			1	13.00	0.45	0.10	0.59		
							0.59	5704.56	**3337.00**
	Basic Rate	5282.00							
	Area Weightage @ 8%	422.56							
	Total	**5704.56**							
34	Supplying and fixing M.S rectangular poles made out of 2 equal angles of 65x656 mm welded together and fixed in CC (1:2:4) with 2 NOS 16 mm dia, M.S hold fast rods each of length 25 cms, including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer in charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete), No.265/ Item No. 37.2 PWD SR 2016-17	m							
			14			2.40	**33.60**	884.52	**29720.00**
	Basic Rate	819.00							
	Area Weightage @ 8%	65.52							
	Total	**884.52**							
35	Providing and fixing M.S. Block pipe of 38 mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the two vertical poles (M.S rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the engineer in charge of work etc, complete including two coats of approved quality paint over one coat of shop paint, No. 265 Item No. 37.4 PWD SR 2016-17	m							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			3	13.00			39.00		
							39.00	349.92	**13647.00**
	Basic Rate	324.00							
	Area Weightage @ 8%	25.92							
	Total	**349.92**							
6	Providing chain link fencing 50 mm size of 8 guage properly stretched between rectangular poles and fixed with suitable bolts & nuts, the free ends shall bed welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the engineer – in charge of work including two coats of	Sqm							
			1	13.00		2.40	31.20	EE(BTP)	
							31.20	711.72	22206.00
	Basic Rate	659.00							
	Area Weightage @ 8%	52.72							
	Total	**711.72**							
37	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. Page No. 104/ Item No. 15.74/ PWD SR -2016-17	Sqm							
	For Chainlink Fencing		1	13.00		1.65	**21.45**		
							21.45	88.56	**1900.00**
	Basic Rate	82.00							
	Area Weightage @ 8%	6.56							
	Total	**88.56**							
								Grand Total	442687.00
38	For 12% Applicalbe GST								53122.44
39	Miscesallaneous Charges	L/S							4190.56
								Total	**500000.00**

ADMINISTRATIVE APPROVAL
Accorded For Rs. Five lakhs only
Head of A/c. P-3292
Div. Ref. No. 37 Date 01/02/19
AE 01/02
EE(BTP) 01/02

TECHNICAL SANCTION
Accorded For Rs. Five lakhs only
Head of A/c. P-3292
Div. Ref. No. 67 Date 01/02/19
AE 01/02
EE(BTP) 01/02

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17
3 This works come under B.B.M.P. limits.

Assistant Engineer
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike

ıme of work: Maintenance of community property including parks in ward no 07

ıtarayanapura

		Estimate Cost Rs.						5.00 LAKH	
	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 2-1.1: Earth work in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, Specification No KBS 2-1.1, pg No. 6/ Item No. 2.1/ PWD SR 2018-19								
	For chainlink fencing foundation	cum	200	0.30	0.30	0.30	5.40		
							5.40	263.94	1425.00
	Basic Rate:	cum	**249.00**						
	Area Weightage @ 6%		14.94						
	Total		**263.94**						
2	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 136, item No. 17.1)								
	Basic Rate	cum	**57.00**				5.40	94.34	510.00
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km								
	For 10 Km								
	Rs.2.50X1.28TonneX10Km		**32.00**						
	Total		**89.00**						
	Add Area Weightage6%		**5.34**						
			94.34						
3	KSRB- 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. (Item No. 15.74 P. 123/ PWD SR 2018-19)								
	chainlink fencing paint								
			1	200.00	1.50		300.00		
							300.00	100.70	30210.00
	Basic Rate:	sqm	**95.00**						
	Area Weightage @ 6%		5.70						
	Total		**100.70**						

4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregares @ 0.465 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No.								
	for rectangular poles		200	0.30	0.30	0.15	2.70		
							2.70	5505.64	14865.00
	Basic Rate:	cum	**5194.00**						
	Area Weightage @ 6%		311.64						
	Total		**5505.64**						
5	KSRB- 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregares @ 0.43 cum with superplastisiser @ 3lts confirming to IS9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2,pg No. 13/ Item No. 4.5								
	for rectangular poles		200	0.30	0.30	0.20	3.60		
							3.60	5647.68	20332.00
	Basic Rate:	cum	**5328.00**						
	Area Weightage @ 6%		319.68						
	Total		**5647.68**						
6	Supplying and fixing MS rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC 1:2:4 with 2 No. of 16mm dia MS hold fast rods each of length 25 cm, including ocst of all materials, cutting, bending, scaffolding wherever necessary, nicely finishing the welded joints with all leads and lifts and as per the directions of the Engineer in charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) (P. 262, I. 37.2)								
			100	1.80			180.00	910.54	163897.00
	Basic Rate:	m	**859.00**						
	Area Weightage @ 6%		51.54						
	Total		**910.54**						
7	Providing and fixing MS block pipe of 38 mm dia of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (MS rectangular poles) and spot welding the chain link with MS block pipe including cost of all materials, wastage in cutting and scaffolding whereever necesssary with all lead and lift as directed by the Engineer in charge of the work and including providing 2 coats of approved quality paint over one coat of shop paint (PWDSR 2015-16, P. 266, I. 37.7)								
			1	101.00			101.00	432.48	43680.00
	Basic Rate:	m	**408.00**						
	Area Weightage @ 6%		24.48						
	Total		**432.48**						

8	Providing chainlink fencking 50mm size of 8 guage properly stretched between existing rectangular poles andfixed with suitable bolts and nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts as per the direcdtions of the Engineer in charge of the work and including providing 2 coats of approved quality paint over one coat of shop paint (PWDSR 2015-16, P. 266, I. 37.3)								
			1	150.00	1.50		225.00	757.90	170528.00
	Basic Rate:	sqm	**715.00**						
	Area Weightage @ 6%		42.90						
	Total		**757.90**						
	Sub Total								**445447.00**
9				**Add 12% GST**					53453.64
10				**Miscelleneous charges**					1099.36
11						**Total**			500000.00

1)This is certified that the work spot comes under BBMP limits only.

2) The work spot is inspected by me

3) The items Provided in the Estimate are quite Essential

4)The rates are as per CSR of 2018-19 year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub Division

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Executive Engineer
Byatarayanapura

ADMINISTRATIVE APPROVAL

Accorded For Rs. Five lakhs only

Head of A/c P-3292

Div. Ref. No. 41 Date. 01/02/19

AE

EE(BTP) 01/02

TECHNICAL SANCTION

Accorded For Rs. Five lakhs only

Head of A/c P-3292

Div. Ref. No. 71 Date. 01/02/19

AE

EE(BTP) 01/02

Name of Work:- Maintenance of crematorium burial grounds and office maintenance in ward No.07 byatarayanapura.

Estimated Cost:- 5.00 Lakhs

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.143.Item No.19.1)								
	Basic Rate:	cum	**130.00**						
	Area Weightage @		7.80						
	Total		**137.80**						
	Water tank								
	crematoriums		3	2.00	2.10	1.00	12.60		
					TOTAL		**12.60**	137.80	1737.00
2	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . **(Pg.No.13, It.4.3)**								
	Basic Rate:	cum	5102.00						
	Area Weightage @		306.12						
	Total		5408.12						
	RCC DRAIN-BOTTOM								
	crematoriums		3.00	2.00	2.10	0.15	1.89		
					TOTAL		**1.89**	5408.12	10222.00
3	KSRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. Seocifications No. KBS 4.1,4.6 (Page NO. 14, Item NO. 4.11)								
	Basic Rate:	cum	5659.00						
	Area Weightage @		339.54						
	Total		5998.54						
	footing								
	crematoriums	**3*4**	12.00	0.45	0.45	0.60	1.46		
	column								
	crematoriums	**3*4**	12.00	0.30	0.30	2.00	2.16		
	slab								
	crematoriums	**3*1**	3.00	2.00	2.00	0.20	2.40		
							1.46	5998.54	8746.00

4	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.18, Item No.4.46.2)								
	Basic Rate:	Tonne	70966.00						
	Area Weightage @		4257.96						
	Total		75223.96						
	Reinforcement for side wall						1.46		
			At 75 Kg % per cum				**0.11**	75223.96	8226.00
5	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / **rectangular slabs /side walls** polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)								
	Basic Rate:	Sqm	456.00						
	Area Weightage @		27.36						
	Total		483.36						
	footing								
	crematoriums	3*4	12.00	0.45		0.6	**3.24**		
	column								
	crematoriums	3*4	12.00	0.3		2	**7.20**		
	slab								
	crematoriums	3*4	12.00	2		0.2	**4.80**		
	slab bottom								
	crematoriums	3*1	3.00	2		2	**12.00**		
							27.24	483.36	13167.00
6	Providing and placing on terrace, polyethylene water storage tanks asper IS 12707:1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of materials, labour, transport charges, HOM and testing complete as per specifications for 1000 litre capacity.(Page								
	Basic Rate:	nos	6828.00						
	Area Weightage @		409.68						
	Total		7237.68						
	Water tank		3.00				**2.00**		
							2.00	7237.68	14476.00
7	KSRB 15.3.13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No. 114 / Item No. 15.21								
	compound		1	180		1.60	**288.00**		
	Basic Rate:	sqm	**193.00**		**TOTAL**		**288.00**	208.44	**60030.72**
	Area Weightage @		15.44						
	Total		208.44						

8	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.								
	compound		1	180		1.60	**288.00**		
	Basic Rate:	sqm	**69.00**		**TOTAL**		**288.00**	74.52	**21461.76**
	Area Weightage @		5.52						
	Total		74.52						
9	KSRB 14.6-1: Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS. (P.No. 103, I.No. 14.6 of CSR 2016-17)								
			1	77		3.50	**269.50**		
	Basic Rate:	sqm	**1053.00**		**TOTAL**		**269.50**	1137.24	**306486.18**
	Area Weightage @		84.24						
	Total		1137.24						
10	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								
	Basic Rate	cum	**57.00**				12.60	94.34	1189.00
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX10Km		**32.00**						
	Total		**89.00**						
	Add Area Weightage6%		**5.34**						
			94.34						
11							**Sub Total**		445741.66
12							**Add 12% GST charges**		53489.00
13							**Miscelleneous charges**		769.34
14							**Total**		500000.00

ADMINISTRATIVE APPROVAL
Accorded For Rs. Five lakhs only
Head of A/c P-3291
Div. Ref. No. 43 Date 01/02/19
AE EE(BTP) 01/02

1)This is certified that the work spot comes under BBMP limits only.
2) The work spot is inspected by me
3) The items Provided in the Estimate are quite Essential
4)The rates are as per CSR of 2018-19 year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Executive Engineer

TECHNICAL SANCTION
Accorded For Rs. Five lakhs only
Head of A/c P-3291
Div. Ref. No. 73 Date 01/02/19
AE EE(BTP) 01/02

BRUHATH BANGALORE MAHANAGARA PALIKE

Name of work: Maintenance of General/public toilets in Ward No. 07 Byatarayanapura.

Estimate cost : Rs 5.00 lakhs

Sl No	Description of work	Measurements No	L	B	D	Qty	Unit	Rate	Amount
1	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per								
	Pipe Line		1	49	0.60	0.75	22.05			
	[P.No.5-1.No.2.4]						**22.05**	**cum**	**305.64**	**6739.36**
	Basic Rate 283.00									
	Add 8% 22.64									
	Total Rs 305.64									
2	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per								
	V.	8		0.90		0.60	**4.32**			
	[P.No.32-1.No.7.9]									
	Basic Rate 78.00						**4.32**	**kg**	**84.24**	**363.92**
	Add 8% 6.24									
	Total Rs 84.24									
3	PVC DOOR Shutter : Supply and fixing of doors shuttersmade of rigid PVC extruded hollow section of 20mm X 200mm with the wall thickness of 1.0mm + /0.1mm equally divided into 4nos with tongue and groove locking arrangements. The shutter frame is made of 58*24 mm with the wall thickness of 1.5mm+/-0.15mm section metricut and joined at 4 corners with 125mmX225mm plastic brackets. The shitter shall be horizontally reinforced with 2nos of 8mm PVC rods. Teak wood battons shall be reinforced inside the door shutter during the fabrication of the door shutter at those points wherever the hardware is fixed on to the door shutter.								
	D1 .		8	0.75		2.10	**12.60**			
	[P.No.58-1.No.9.86]						**12.60**	**sqm**	**1900.80**	**23950.08**
	Basic Rate 1760.00									
	Add 8% 140.80									
	Total Rs 1900.80									

Sl No	Description of work	Measurements No	L	B	D	Qty	Unit	Rate	Amount
4	KSRB15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials,								
	Outside Plastering .	2	3.50		3.60	**25.20**			
		2	3.00		3.60	**21.60**			
		2	4.00		3.60	**28.80**			
		2	5.50		3.60	**39.60**			
	[P.No.114-1.No.15.18]					**115.20**	**sqm**	**279.72**	**32223.74**
	Basic Rate 259.00								
	Add 8% 20.72								
	Total Rs 279.72								
5	KSRB15-3.10 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials,								
	Inside Plastering .\	2	3.10		3.00	18.60			
		2	1.20		3.00	7.20			
	Celing plastering	1	3.10	2.50		7.75			
	for toilet	2	1.50		3.00	9.00			
	for toilet	2	1.50		2.10	6.30			
	for urinals	2	1.20		3.00	7.20			
	[P.No.114-1.No.15.21]					**56.05**	**sqm**	**208.44**	**11683.06**
	Basic Rate 193.00								
	Add 8% 15.44								
	Total Rs 208.44								
6	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other								
	Toilets-1	2	2.30		3.00	13.8			
		2	4.60		2.10	19.32			
		2	2.30		3.00	13.8			
	[P.No.118-1.No.15.54.2]					**46.92**	**sqm**	**45.36**	**2128.29**
	Basic Rate 42.00								
	Add 8% 3.36								
	Total Rs 45.36								
7	KSRB 14.14-5 : Providing ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. ceramic tiles								
	Toilet flooring .	2	1.20	1.50		3.60			
	Urianls area	1	3.10	1.20		3.72			
		1	3.00	2.50		7.50			
		2	4.50	6.50		58.50			
		2	5.00	6.50		65.00			

Sl No	Description of work	Measurements No	L	B	D	Qty	Unit	Rate	Amount
	[P.No.106-1.No.14.36.3]					138.32	Sqm	1272.24	175976.24
	Basic Rate 1178.00								
	Add 8% 94.24								
	Total Rs **1272.24**								
8	KSRB 14.14-5 : Providing ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. ceramic tiles 15X15cms 6mm thick								
	Toilet wall .	4	1.20		2.10	10.08			
	Urianls wall	4	1.50		2.10	12.60			
	Urianls wall	2	3.10		2.10	13.02			
	Wash basin area	1	1.20		3.10	3.72			
	[P.No.106-1.No.14.36.1]					**39.42**	**Sqm**	**999.00**	**39380.58**
	Basic Rate 925.00								
	Add 8% 74.00								
	Total Rs **999.00**								
9	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC								
	20mm dia CPVC pipe .	1	30			30.00			
	[P.No.97-1.No.13.87.2]					**30.00**	**mtr**	**135.00**	**4050.00**
	Basic Rate 125.00								
	Add 8% 10.00								
	Total Rs 135.00								
	25mm dia CPVC pipe .	1	30			30.00			
	[P.No.97-1.No.13.87.3]					**30.00**	**mtr**	**178.20**	**5346.00**
	Basic Rate 165.00								
	Add 8% 13.20								
	Total Rs 178.20								
	32mm dia CPVC pipe .	1	30			30.00			
	[P.No.97-1.No.13.87.4]					**30.00**	**mtr**	**232.20**	**6966.00**
	Basic Rate 215.00								
	Add 8% 17.20								
	Total Rs 232.20								
10	Providing white vitreous china clay indian pattern squatting urinals with white glazed foot rests of approved quality and make conforming to ISI specifications and fixing in position with M-15 as directed of size 50.8 cms X 38 cms X 10.16 CMS - A grade(Rate .					4.00			
	[P.No.88-1.No.12.110]					**4.00**	**each**	**1047.60**	**4190.40**
	Basic Rate 970.00								
	Add 8% 77.60								

Sl No	Description of work		Measurements No	L	B	D	Qty	Unit	Rate	Amount
	Total Rs	1047.60								
11	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and									
	12.5cmx7.5cm .						5.00			
	[P.No.88-1.No.12.113.2]						5.00	each	307.80	1539.00
	Basic Rate	285.00								
	Add 8%	22.80								
	Total Rs	307.80								
12	KSRB13-6.1-1 : Providing and fixing in position brass bib cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete									
	.						15.00			
	[P.No.91-1.No.13.23]						15.00	each	249.48	3742.20
	Basic Rate	231.00								
	Add 8%	18.48								
	Total Rs	249.48								
13	KSRB 12-8.1 : Constructing brick masonry inspection chamber 455x610mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of									
	.						4.00			
	[P.No.73-1.No.11.50]						4.00	No's	7604.28	30417.12
	Basic Rate	7041.00								
	Add 8%	563.28								
	Total Rs	7604.28								
14	KSRB 11-5 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I/M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets,									
	.						5.00			
	[P.No.77-1.No.12.5]						5.00	each	5540.40	27702.00
	Basic Rate	5130.00								
	Add 8%	410.40								
	Total Rs	5540.40								

Sl No	Description of work	Measurements No	L	B	D	Qty	Unit	Rate	Amount
15	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of					3.00			
	[P.No.80-1.No.12.23]					3.00	No's	4196.88	12590.64
	Basic Rate 3886.00								
	Add 8% 310.88								
	Total Rs 4196.88								
16	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 : 1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete								
	[P.No.94-1.No.13.78] .					2.00	No's	9144.36	18288.72
	Basic Rate 8467.00								
	Add 8% 677.36								
	Total Rs 9144.36								
17	Providing and finishing external walls in two coats over one coat of 100% acrylic silicon glazed primer with antifungal paint for top coat of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter								
	[P.No.125-1.No.15.104]					115.20	Sqm	163.08	18786.82
	Basic Rate 151.00								
	Add 8% 12.08								
	Total Rs 163.08								
18	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO - 94, I.NO - 13.73.2, PWD SR 16-17)								
			1	49.00		49.00	No's	368.88	18075.12
	Basic Rate 348.00								
	Add 8% 20.88								
	Total Rs 368.88								

Sl No	Description of work	Measurements				Qty	Unit	Rate	Amount
		No	L	B	D				
19	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 16-17)								
		1	49.00	0.60	0.75	22.05	Sqm	80.56	1776.35
	Basic Rate 76.00								
	Add 8% 4.56								
	Total Rs 80.56								
				Total Rs.		_	_	_	445915.64
				Add 12% GST		_	_	_	53509.88
				For Miscellaneous &		_	_	_	574.49
				GRAND TOTAL		_	_	_	500000.00

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17
3 This works come under B.B.M.P. limits.

Assistant Engineer
Ward no. 07

Executive Engineer
Byatarayanaura Div

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike

ADMINISTRATIVE APPROVAL
Accorded For Rs. Five lakhs only
Head of A/c P-3294
Div. Ref. No. 42 Date 01/02/19
AE 01/02
EE(BTP) 01/02

TECHNICAL SANCTION
Accorded For Rs. Five lakhs only
Head of A/c P-3294
Div. Ref. No. 72 Date 01/02/19
AE 01/02
EE(BTP) 01/02

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Detailed Estimate for the Work of Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division

								Estimate Cost Rs.	1500000.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.3, PWD SR 16-17)	Cum							
	For Compound Wall Back Side		1	20.00	0.90	0.90	16.20		
	Culverts		1	12.00	2.40	1.20	34.56		
							50.76	204.12	**10361.00**
	Basic Rate	189.00							
	Area Weightage @ 8%	15.12							
	Total	**204.12**							
2	KSRRB 300-1. Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH chapter 3. No. 141/ Item No. 19.1/ PWD SR 2016-17	Cum							
	Front of DWCC Building		1	59.00	0.45	0.35	9.29		
							9.29	88.56	**823.00**
	Basic Rate	82.00							
	Area Weightage @ 8%	6.56							
	Total	**88.56**							
3	Removing B.S Slab of Drain and stacking Page No. 25/ Item No. 5.32/ PWD SR 2016-17	Sqm							
			1	59.00	1.65		97.35		
							97.35		
	Deduct 10% Missing Slabs						9.74		
							87.62	66.96	**5867.00**
	Basic Rate	62.00							
	Area Weightage @ 8%	4.96							
	Total	**66.96**							
	Refixing stone slabs of drains and pointing in C.M (1:3) Page No. 25/ Item No. 5.33/ PWD SR 2016-17	Sqm							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			Qty Vide Item No.3				87.62		
							87.62	82.08	7191.00
	Basic Rate	76.00							
	Area Weightage @ 8%	6.08							
	Total	**82.08**							
5	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick Page No. 28/ Item No. 5.31.1/ PWD SR 2016-17	**Sqm**							
	For Missing slabs (15%)		Missing Slabs				9.74		
							9.74	678.24	6603.00
	Basic Rate	628.00							
	Area Weightage @ 8%	50.24							
	Total	**678.24**							
6	KSRB-4-1.3 : Providing and laying in position **plain cement concrete of mix M 7.5** withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2016-17	cum							
	For Compound Wall		1	20.00	0.90	0.15	**2.70**		
	Flooring		1	16.00	15.00	0.15	**36.00**		
	Culverts		1	12.00	2.40	0.15	**4.32**		
							43.02	5256.36	226129.00
	Basic Rate	4867.00							
	Area Weightage @ 8%	389.36							
	Total	**5256.36**							
7	KSRB 5.2-2 Providing and constructing granite / trap / basalt rubble **stone masonry in foundation** with mud mortar 1:8, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 **Page**	cum							
	Compound		1	20.00	0.75+0.60	0.70	9.45		
					2				
			2	12.00	0.75	0.60	10.8		
							20.25	4359.96	88289.00
	Basic Rate	4037.00							
	Area Weightage @ 8%	322.96							
	Total	**4359.96**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
8	KSRB 5.3-3 Providing and constructing granite / trap / basalt **size stone masonry in basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 26/ Item No. 5.9/ PWD SR 2016-17**	cum							
	Compound		1	20.00	0.50	0.60	**6.00**		
			2	12.00	0.60	0.60	**8.64**		
							14.64	5405.40	**79135.00**
	Basic Rate	5005.00							
	Area Weightage @ 8%	400.40							
	Total	**5405.40**							
9	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2015-16	**cum**							
	For Compound Wall coaping		1	20.00	0.50	0.10	1.00		
	For Compound Wall Top		1	20.00	0.20	0.10	0.40		
	Culverts		2	12.00	0.60	0.10	1.44		
	Vent		1	12.00	0.90	0.10	1.08		
	For Flaging Course		2	59.00	0.25	0.10	2.95		
							6.87	5491.80	**37729.00**
	Basic Rate	5085.00							
	Area Weightage @ 8%	406.80							
	Total	**5491.80**							
0	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No. 24/ Item No. 5.27/ PWD SR 2016-17	Sqm							
	For Raising Course Drain								
			1	59.00		0.40	23.60		
							23.60	993.22	**23440.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	937.00							
	Area Weightage @ 6%	56.22							
	Total	**993.22**							
11	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shutterng machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA	Sqm							
			1	59.00	0.90		53.10		
							53.10	1856.67	**98589.00**
	Data Rate	**1856.67**							
12	Providing **flush pointing** to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **Page No. 119/ Item No. 15.1 PWD SR 2016-17**	sqm							
	Compound		1	20.00	0.60		**12.00**		
			2	12.00	0.60		**14.40**		
							26.40	104.76	**2766.00**
	Basic Rate	97.00							
	Area Weightage @ 8%	7.76							
	Total	**104.76**							
13	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2016-17	**Cum**							
	For Cuvlerts		1	12.00	2.10	0.23	5.80		
							5.80	6371.66	**36930.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	6011.00							
	Area Weightage @ 6%	360.66							
	Total	**6371.66**							
14	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46.2/ PWD SR 2016-17	**Qtl**							
	0.90Ton/Cum		0.090	5.80			**0.52**	64243.42	**33512.00**
	Basic Rate	60607.00							
	Area Weightage @ 6%	3636.42							
	Total	**64243.42**							
15	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 for raft foundation, column footing, main and	Cum							
	Flooring		1	16.00	15.00	0.10	24.00		
	DWCC Building Front		1	15.00	10.00	0.10	15.00		
							39.00	6231.74	**243038.00**
	Basic Rate	5879.00							
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
6	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms, in depth, compacting each deposited layers by ramming after watering with lead upto 50m, and lift upto 1.5m, including cost of all labour complete as per specifications, specification. (P.NO - 6, I.NO - 2.11, PWD SR 16-17)	Cum							
			Qty. Vide Item No.				**50.76**	137.16	**6962.00**
	Basic Rate	127.00							
	Area Weightage @ 8%	10.16							
	Total	**137.16**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
17	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No. 24/ Item No. 5.27/ PWD SR 2016-17	Sqm							
	For Compound Wall		1	20.00		2.40	48.00	1011.96	**48574.00**
	Basic Rate	937.00							
	Area Weightage @ 8%	74.96							
	Total	**1011.96**							
18	KSRB 15.3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No. 110/ Item No. 15.18 / PWD SR 2016-17	**Sqm**							
			2	20.00		2.40	**96.00**	238.68	**22913.00**
	Basic Rate	221.00							
	Area Weightage @ 8%	17.68							
	Total	**238.68**							
19	KSRB 15-17.6: Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. Page No.125 / Item No. 15.60 / PWD SR	Sqm							
	DWCC in Side Painting		1	44.00		12.00	528.00		
	Room		1	10.00		3.00	30.00		
	Toilets		1	10.00		2.00	20.00		
							578.00	90.72	**52436.00**
	Basic Rate	84.00							
	Area Weightage @ 8%	6.72							
	Total	**90.72**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
20	SKSRB 15-16 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to given an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. Page No. 114/ Item No. 15.53.2 / PWD SR 2016-17	Sqm							
	New Compound Wall			Qty Vide Item No.19			96.00		
	New Compound Wall		1	16.00		2.1	33.60		
	DWCC Building Out Side alround		1	45		12	540.00		
							669.60	90.72	**60746.00**
	Basic Rate	84.00							
	Area Weightage @ 8%	6.72							
	Total	**90.72**							
21	Providing and fixing M.S Gate as per Cheaf Architect Drawing using 50mmX50mm 14 guage M.S hollow pipe frame work bent to ornamental shape as shape as shown in the drawing and 35mmX6mm and 16X16mm squre roads for verticals alternatively spaced at 4cms c/c in two halves and 40mmX6mm M.S flats for horizontal member and at at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of of rust and painted with anti corrosive paint (shop paint) etc., complete the work includes cost of all materials, labour charges for all item of work, hire charges of welding, cutting and grainding equipment, and electricity charges, with lead and lift loading and lunloading charges. etc., complete as per specification and drawing Page No.47/ I No. 7.37/ PWD SR 2016-17	Sqm							
	For Compound Gate		1	6.00	2.40		14.4		
	DWCC Building Gate		1	12.00	3.00		36.00		
							50.40	3168.72	**159703.00**
	Basic Rate	2934.00							
	Area Weightage @ 8%	234.72							
	Total	**3168.72**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
22	Providing and fixing Ceramic tiles of size 400x400mm for flooring, threads,steps and landing,laid on a bed of 20mm thick cement morta. 1:3 mix flush pointing with white cement mixed with matching colour pigment including curing, clearing etc. complete .The Worked including curing., clearing etc., complete. The work includes cost of all materials. Labour charges for all items or work, hire charges for equipment etc., complete as per specification Page No. 116/ Item No. 14.63 / PWD SR 2016-17								
	For Toilets floorings		2	1.20	1.20		2.88		
	Sides		8	1.20	2.10		20.16		
							23.04	1161.00	**26749.00**
	Basic Rate	1075.00							
	Area Weightage @ 8%	86.00							
	Total	**1161.00**							
23	KSRB 8.6-5: Providing and fixing in wall surface 2.5 kg/sq.cm H.D.P.E. rain down water pipes 90 mm outer dia approved make and brand with necessary specials like shoes bends and offsets fixed with iron clamps, walls plugs, screws, including cost of materials, labour,Curing complete as per specifications. Page No. 52/ Item	M							
			1	45.00			45.00	429.84	**19343.00**
	Basic Rate	398.00							
	Area Weightage @ 8%	31.84							
	Total	**429.84**							
4	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) - 25mm nominal OD pipes. [P.No.97-1.No.13.87.2]	mtrs							
	25 MM CPVC Pipe		1	30			30.00	135.00	**4050.00**
	Basic Rate	125.00							
	Area Weightage @ 8%	10.00							
	Total	**135.00**							
5	**20 MM CPVC Pipe**		1	30			30.00	178.20	**5346.00**
	Basic Rate	165.00							
	Area Weightage @ 8%	13.20							
	Total	**178.20**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
26	**32MM CPVC Pipe**		1	30			30.00	232.20	**6966.00**
	Basic Rate	215.00							
	Area Weightage @ 8%	17.20							
	Total	**232.20**							
27	KSRB 11-5 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I/M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, including cost of materials, labour complete as per specification.	Each							
			2				2.00	5540.40	**11081.00**
	Basic Rate	5130.00							
	Area Weightage @ 8%	410.40							
	Total	**5540.40**							
28	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 [P.No.80-1.No.12.23]								
			1				1.00	4196.88	**4197.00**
	Basic Rate	3886.00							
	Area Weightage @ 8%	310.88							
	Total	**4196.88**							
9	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 : 1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. (For 1000 litre capacity)								

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			1				1.00	9144.36	9144.00
	Basic Rate	8467.00							
	Area Weightage @ 8%	677.36							
	Total	9144.36							
							Grand Total		1338612.00
30	For 12% GST								160633.00
31	Miscesallaneous Charges	L/S							755.00
								Total	1500000.00

ERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17
3 This works come under B P M P limits.

Assistant Engineer
Ward No. 96

Executive Engineer
Byatarayanapura Division

Assistant Executive Engineer
Byatarayanapura Sub Division

TECHNICAL SANCTION
Accorded For Rs. Fifteen lakhs only
Head of A/c. P-3298
Div. Ref. No. 95 Date. 01/02/19
AE 01/02
EE(BTP) 01/02

Technical Sanction
Accorded For Rs 15:00lakhs only
Head of A/C. P-3298
CER NO : 165 Dt: 9/01/2019
TA
CE (YNK)

BRUHAT BANGALORE MAHANAGAR PALIKE									
Name of Work: Desilting of Storm Water Drains in ward no:07 Byatarayanapura									
							Est	Rs.	1,000,000.00
Sl no	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB M200-15.2. **Dismantling of existing structures** like culverts,bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii) Dismantling Stone Masonry.B. **Rubble stone masonry** in cement mortar MORTH Specification No. 202 Page No: 137 Item No:18.27								
			1	5	(0.9+0.45) /2	2	6.75		
		Cum					6.75	263.52	1778.76
	Baasic Rate	244.00							
	Area Weightage 8	19.52							
	Total	263.52							
2	Excavation and removal of silt and silt mixed with sand in slussy condition from canal bed including disposing off the same in spoil bank or on the canal embankment in layers as directed etc., complete with lead upto 50 m and all lifts. (16-17,P.157,I.WRD:8.35)								
			1	704.00	4.00	0.60	1689.60		
		Cum					1689.60	503.17	850159.41
	Baasic Rate	179.00							
	Lead up to 5 KM	94.90							
	Lead 5KM to 25 KM =20KM x	192.00							
	Arrived rate	465.90							
	Area Weightage 8 0/	37.27							
	Total	503.17							
3	KSRRB M2100-5.1. Earth work in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications. "V. Marshy soil - A. Manual Means Upto 3 m depth MORTH Specification No. 304 Page No: 216 Item No:27.12								

Sl no	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
			1	5.00	0.90	0.60	2.70		
		Cum					2.70	536.76	1449.25
	Baasic Rate	417							
	Haulage for earth for 25.0 kms i.e 1.28*2.5*25.0=48.6	80							
	Arrived rate	497							
	Area Weightage 8 %	39.76							
	Total	536.76							
4	KSRRB M2100-13 - Plain Cement Concrete M15 with OPC cement @ 240 kgs, with 40mm and down size graded granite metal coarse aggregates @0.84 cum and fine aggregates @ 0.56cum, in open foundation complete as per Drawing and Technical Specification MORTH Specification No.1500, 1700 & 2100								
		Cum	1	5.00	0.90	0.10	0.45		
	Baasic Rate	5871					0.45	6340.68	2853.31
	Area Weightage 8 %	469.68							
	Total	6340.68							
5	KSRRB M 2100-17.2 : Plain/reinforcement Cement Concrete design mix M25 with OPC cement @340 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70cum and fine aggregates @0.47cum with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, open foundation complete as per Drawing and Technical Specification with Batching plant, transit mixer and concrete								
			1	5.00	0.45	0.10	0.23		
		Cum					0.23	6570.72	1478.41
	Baasic Rate	6084.00							
	Area Weightage 8 %	486.72							
	Total	6570.72							

Sl no	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount
	Stone masonry work in cement mortar 1:3 for substructure complete as per drawing and technical specification B. Ramdom Rubble Masonry (Coursed/uncoursed) MORTH specifications No.1405.4 with available stones								
			1	5	(0.9+0.45) /2	2	6.75		
		Cum					4.05	3299.40	13362.57
	Baasic Rate	3979							
	Cum @ the Rate of Rs. 7 (110X7=770)	770							
	Deduct 10% over head Charges	77							
	Contractors Profit	77							
	Arrived rate	3055							
	Area Weightage 8	244.4							
	Total	3299.4							
7	Stone masonry work in cement mortar 1:3 for substructure complete as per drawing and technical specification B. Ramdom Rubble Masonry (Coursed/uncoursed) MORTH specifications No.1405.4 with New stones								
			1	5	(0.9+0.45) /2	2	6.75		
		Cum					2.70	4297.32	11602.764
	Baasic Rate	3979.00							
	Area Weightage 8	318.32							
	Total	4297.32							
8	Providing Rulled pointing to course stone masonry with cement mortar 1:3, 20mm deep, after raking joints o depth of 20mm nicely lining , including cost of materials, labours, curing complete asper specification.								
			2	10		2	40.00		
		Sqmt					40.00	105.84	4233.60
	Baasic Rate	98.00							
	Area Weightage 8	7.84							
	Total	105.84							
	Total								885139.32
	Add 12% GST								106216.72
	Add: PMC/Third Party Inspection Charges L/S								8500.00
	Miscellaneous								143.97
	Grand Total	Rupees Ten Lakhs Only							1000000.00

Certificate:

Sl no	Description Of Work	Unit	No	L	B	D	Qty	Rate	Amount

1. The above location is coming under jurisdiction of BBMP limit.
2. Certified that I have personally inspected the area and prepared the estimate.
3. The work is not split up.
4. Certified that the estimate is prepared as per 2016-17 SR of KPWD and MI SR 2016-17
5. The above specified works are essential and minimum

Assistant Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Executive Engineer 01/02

01/02

ADMINISTRATIVE APPROVAL

Accorded For Rs. Ten lakhs only

Head of A/c. P-3297

Div. Ref. No. 44/18-19 Date 01/02/19

AE 01/02

EE(BTP) 01/02

TECHNICAL SANCTION

Accorded For Rs. Ten lakhs only

Head of A/c. P-3297

Div. Ref. No. 74/18-19 Date 01/02/19

AE 01/02

EE(BTP) 01/02